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NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

08/28/2009

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314 EXAMINER

BLUMEL, BENJAMIN P

ART UNIT PAPER NUMBER

1648

DATE MAILED: 08/28/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|--------------------------------------|---------------------|------------------|
| 10/560,594 | 12/13/2005 | Antonius Johannes Hendrikus Stegmann | 2001-1418 | 7185 |

TITLE OF INVENTION: FUNCTIONALLLY RECONSTITUTED VIRAL MEMBRANES CONTAINING ADJUVANT

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 11/30/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further ndicated unless correcte naintenance fee notifica | ed below or directed oth | ng the Patent, advance on herwise in Block 1, by (a | rders and notification a) specifying a new co | of m | naintenance fees w pondence address; | vill be and/o | mailed to the current (b) indicating a separ | correspondence address as rate "FEE ADDRESS" for |
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| CURRENT CORRESPOND | | Fee(s | s) Transmittal. Thi rs. Each additiona | is certii 1 paper | ficate cannot be used for | domestic mailings of the or any other accompanying at or formal drawing, must | | |
| 466 YOUNG & TH | | /2009 | | | Cer | tificate | e of Mailing or Transi | nission |
| 209 Madison Str Suite 500 | | | State addre trans | es Postal Service wessed to the Mail mitted to the USP | vith sul Stop TO (57 | ficient postage for first 1SSUE FEE address (1) 273-2885, on the da | deposited with the United class mail in an envelope above, or being facsimile te indicated below. | |
| ALEXANDRIA | , VA 22314 | | | | | | | (Depositor's name) |
| | | | | | | | | (Signature) |
| | | | | | | | | (Date) |
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| BLUMEL, B | | 1648 | 435-006000 | 1 | f 15. | | | |
| Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | 2. For printing on the patent front page, list (I) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | | | | | |
| PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG | less an assignee is ident h in 37 CFR 3.11. Comp GNEE | oletion of this form is NO | data will appear on the T a substitute for filing (B) RESIDENCE: (C | ne pa g an a | atent. If an assign assignment. and STATE OR C | COUNT | TRY) | cument has been filed for |
| Please check the appropr | iate assignee category or | categories (will not be pr | rinted on the patent): | _ | Individual 🖵 Co | orporati | ion or other private gro | up entity Government |
| da. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ Issue Fee ☐ A check is enclosed. | | | | | | hown above) | | |
| Publication Fee (N | Payment by credit card. Form PTO-2038 is attached. | | | | | | | |
| Advance Order - 4 | The Director is he | reby | authorized to char | ge the | required fee(s), any def | iciency, or credit any extra copy of this form). | | |
| | tus (from status indicate | | | | | | | _ |
| NOTE: The Issue Fee an | d Publication Fee (if requestres of the United Sta | | d from anyone other th | | | | FITY status. See 37 CF attorney or agent; or the | e assignee or other party in |
| | | | | | | | | |
| Authorized Signature | | | | | | | | |
| Typed or printed name | | | | | - | | | |
| This collection of inform in application. Confiden ubmitting the completed his form and/or suggesti Sox 1450, Alexandria, V Alexandria, Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC | FR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DNOT SEND FEES OR | on is required to obtain 1.14. This collection is depending upon the i e Chief Information O COMPLETED FORM | or restindivi | etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and THIS ADDRESS | he pub minutes ommen Trader S. SEN | lic which is to file (and s to complete, including is on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450, |

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| 466 75 | 90 08/28/2009 | EXAMINER | | | |
| YOUNG & THO | MPSON | BLUMEL, BENJAMIN P | | | |
| 209 Madison Stree | t | ART UNIT | PAPER NUMBER | | |
| Suite 500 ALEXANDRIA, VA 22314 | | | 1648 | | |
| ALEAANDRIA, V | H 22314 | | DATE MAILED: 08/28/2009 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 295 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 295 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | |
|--|--|---|--|
| | 10/560,594 | STEGMANN ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | BENJAMIN P. BLUMEL | 1648 | |
| The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in the or other appropriate communi IGHTS. This application is sub | nis application. If not included cation will be mailed in due course. THIS | |
| | | | |
| 2. X The allowed claim(s) is/are <u>1, 2, 4, 5, 7-12, 14, 15, 17, 19</u> | and 21-23. | | |
| Acknowledgment is made of a claim for foreign priority unally All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | e been received. e been received in Application | No | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | reply complying with the requirements | |
| A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date (be application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposi | son's Patent Drawing Review (s Amendment / Comment or in .84(c)) should be written on the the header according to 37 CFR usit of BIOLOGICAL MATER | the Office action of drawings in the front (not the back) of 1.121(d). RIAL must be submitted. Note the | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /BENJAMIN P BLUMEL/ Examiner, Art Unit 1648 | 6. ☐ Interview Sum Paper No./Ma 7. ☒ Examiner's Ar 8. ☒ Examiner's St 9. ☐ Other /Gary B. Nickol / | | |
| | | | |

Art Unit: 1648

DETAILED ACTION

Applicants are informed that the rejections of the previous Office action not stated below have been withdrawn from consideration in view of the Applicant's arguments and/or amendments.

Election/Restrictions

The species election of group **A.**, subgroup **I.** and group **B.** established in the election/restriction mailed on 12/5/07 has been withdrawn. Therefore, claims 11 and 12 are rejoined with the previously examined claims.

Claims 1, 2, 4, 5, 7-12, 14, 15, 17, 19 and 21-23 are examined on the merits.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the prior art fails to teach or suggest the formation of a reconstituted viral membrane, which contains a viral fusion protein and an amphiphilic lipopeptide adjuvant incorporated into the lipid bilayer of the viral membrane. Furthermore, the closest prior art is that of Dijkstra et al. (The Journal of Immunology, 1996), which teaches the incorporation of bacterial lipopolysaccharide (LPS) [an amphiphilic adjuvant]. However, Dijkstra et al. do not teach or suggest that an amphiphilic lipopeptide adjuvant can be incorporated into the lipid bilayer as in the instant invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert E. Goozner on August 17, 2009.

The application has been amended as follows:

IN THE CLAIMS:

In claim 1, at line 9, "interact with" has been deleted and -- are incorporated within-inserted therefor.

Claim 24 is cancelled.

Conclusion

Claims 1, 2, 4, 5, 7-12, 14, 15, 17, 19 and 21-23 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN P. BLUMEL whose telephone number is (571)272-4960. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on 571-272-1600. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1648

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call

/BENJAMIN P BLUMEL/ Examiner Art Unit 1648

/Gary B. Nickol / Supervisory Patent Examiner, Art Unit 1646

800-786-9199 (IN USA OR CANADA) or 571-272-1000.